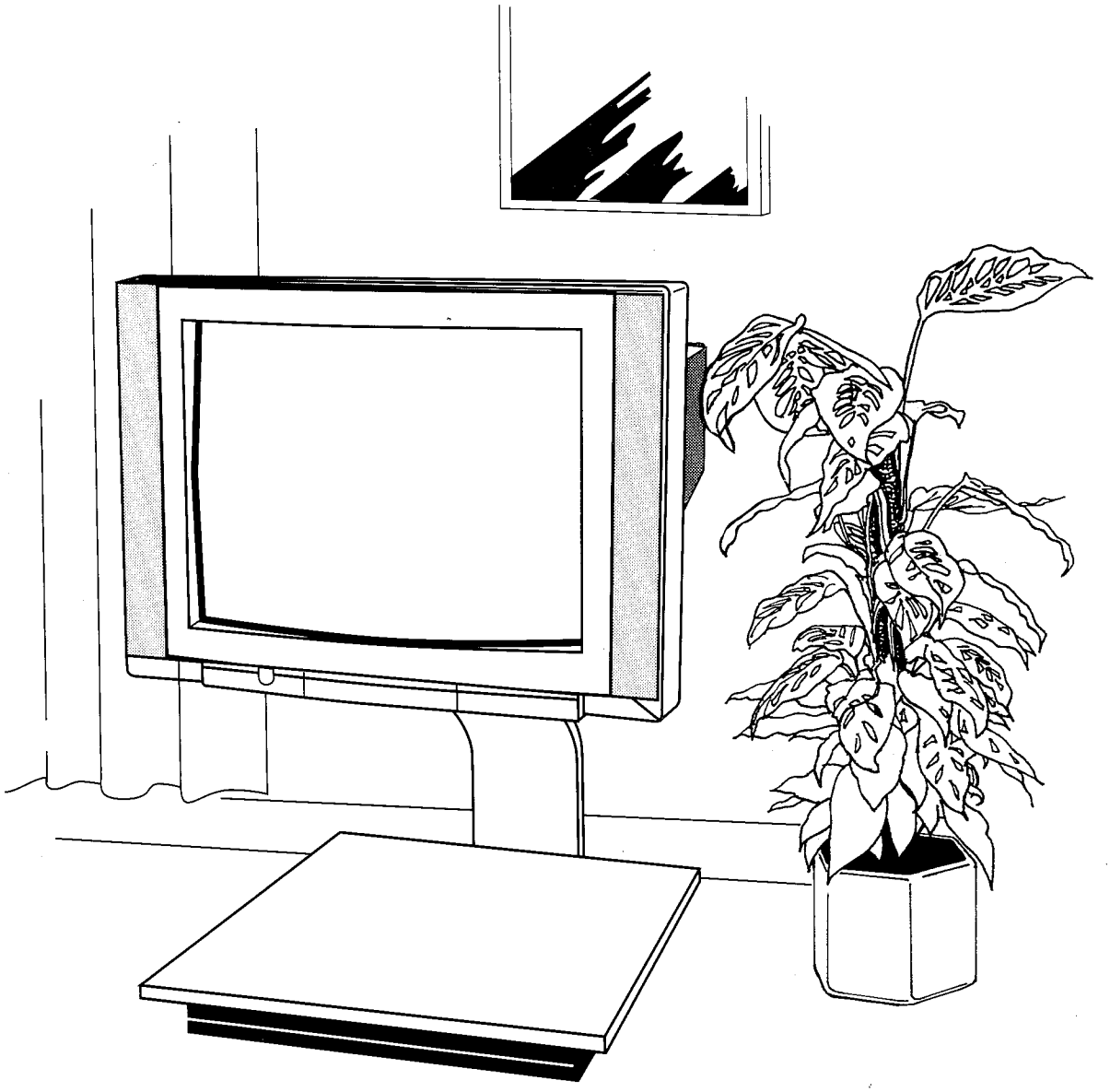
HITACHI

Operating Guide for Models C2564TN C2864TN



COLOUR TV OPERATING GUIDE

HITACHI TELEVISION MODELS
C2564TN C2864TN

MAIN FEATURES

- ◇ Stereo sound
- ◇ Push and push type ON/OFF switch
- ◇ LED indication for dual sound transmissions, and standby
- ◇ Light action buttons on front of TV for volume up/down and programme up/down
- ◇ All customer controls e.g. colour, brightness, volume etc., can be adjusted from handset
- ◇ Multi standard
- ◇ ON-SCREEN display and menus for control functions.
- ◇ 3 × 21 pin peri connectors, and phono sockets for audio/video inputs
- ◇ Headphone socket
- ◇ Nicam stereo

BEFORE OPERATING YOUR TELEVISION

Mains Supply:
This receiver is designed to operate on 240V AC 50Hz only. Do not operate on DC power supplies or other voltages. Before connecting this receiver to the mains, please read the following instructions carefully.

The mains lead on this receiver may already be fitted with a moulded plug incorporating a fuse, the value of which is indicated on the pin face of the plug. Should the fuse need to be replaced, an ASTA or BSI approved BS 1362 fuse must be used of the same rating, marked thus ASTA or .

If the fuse cover is detachable, always replace the cover after replacing the fuse.
NEVER use the plug with the cover omitted.

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home, or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead, or consult your dealer.
If there is no alternative to cutting off the mains plug, ensure that you dispose of it immediately, having first removed the fuse, to avoid a possible shock hazard by inadvertent connection to the mains supply.
If the receiver is not supplied fitted with a mains plug, then follow the instructions given below.

IMPORTANT:

The wires in the mains lead are coloured in accordance with the following code:
BLUE LEAD ..... NEUTRAL BROWN LEAD ..... LIVE.

As the colours of the wires in the mains lead of this apparatus may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:- The BLUE coloured lead must be connected to the terminal marked with the letter N or coloured BLACK.
The BROWN coloured lead must be connected to the terminal marked with the letter L or coloured RED.

On no account connect either of these leads to the terminal marked E or ⏚ or coloured GREEN.

The appliance must be protected by a 5 Amp fuse in the plug or adaptor, or at the distribution board.

IF IN DOUBT - CONSULT A COMPETENT ELECTRICIAN

SWITCHING ON

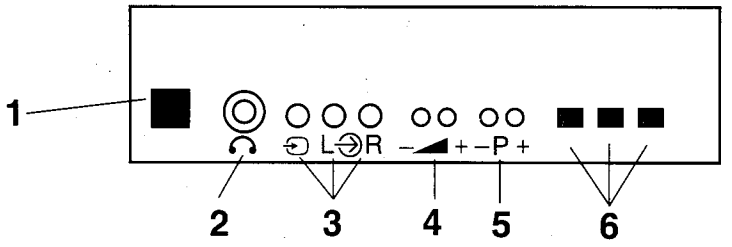
Before switching on, ensure that your mains socket switch is in the "ON" position. Switch on the television by pushing the ON/OFF switch to engage. To switch off, push ON/OFF once again.

NOTE: If the television has been left in standby mode (explained later), then switched off using the ON/OFF switch, it will return to the standby mode when switched on again. Under this condition, the red LED on the front of TV will light as normal, but there will be no picture or sound. Should this happen, aim the handset at the red LED on the front of TV and press the button marked ⏻I .The TV will then operate normally.

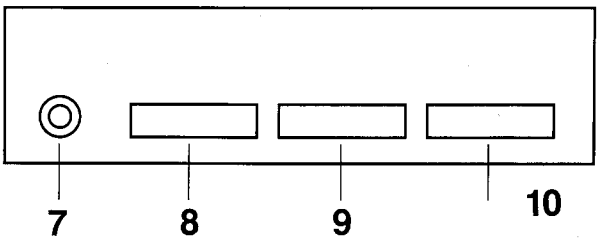
N.B. This TV can also be returned to normal operating form standby by pressing the P + or - buttons on the control panel, which is situated behind the door on front of TV.

TV CONTROLS AND SOCKETS

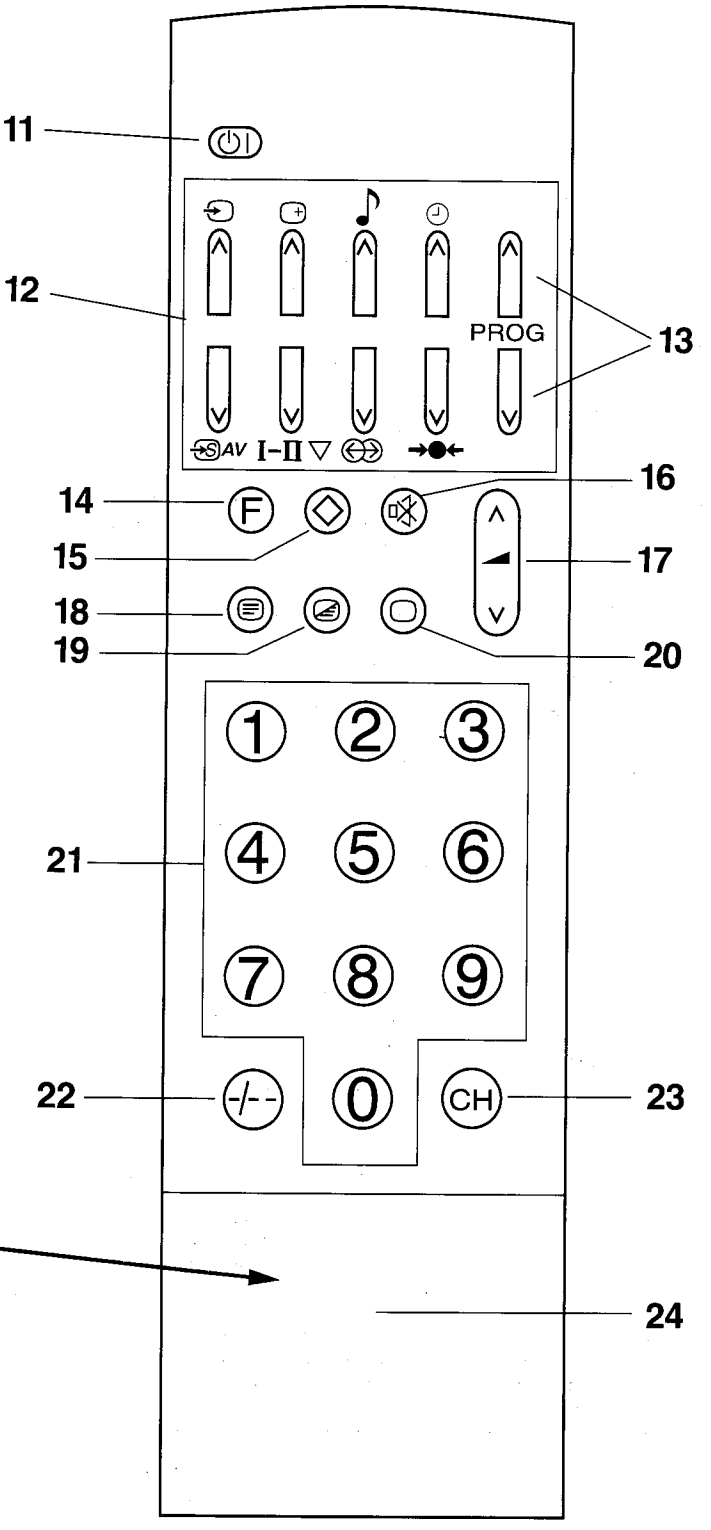
FRONT OF TV
(Push top of door to gain access)



REAR OF TV

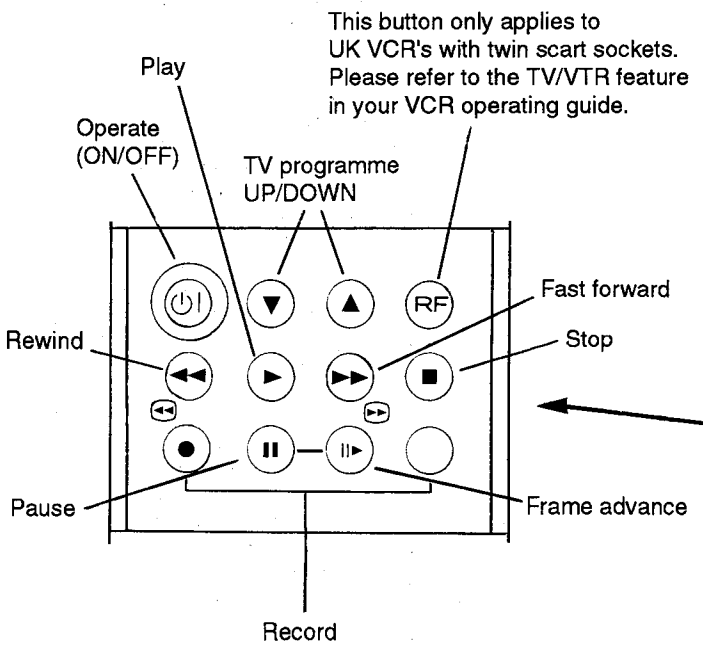


REMOTE CONTROL HANDSET



Function of VCR buttons on TV handset.

Slide down the cover on the bottom of the TV handset to reveal the VCR operating buttons shown below. These buttons will operate Hitachi VCR's with the [Hitachi] symbol.



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Most of the operating functions of this TV are controlled by the remote control handset. Therefore, please refer to this table and the drawings opposite when reading through the instructions in the following pages.

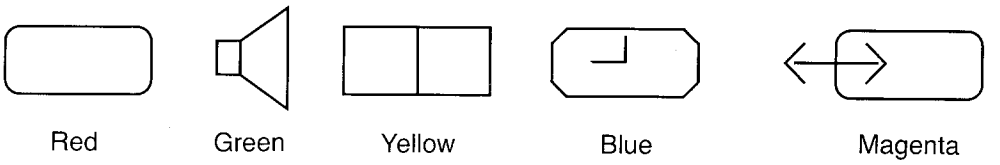
KEY	FUNCTION	PURPOSE
1	ON/OFF Switch	Turns the power to the TV on and off
2	Headphone Socket	Allows Private Listening
3	Phono Sockets AV4	For video and audio inputs from video recorders, camcorders etc
4	Volume +/– Buttons	Increases or decreases the sound level
5	**P +/- Buttons**	**Increases or decreases the programme number on display by 1. Also returns TV to normal operation from standby.**
6	LED Display	Two Green L.E.Ds to indicate a stereo/ dual sound broadcast, and a Red LED to indicate the standby condition
7	Aerial Socket	Connect coaxial cable from aerial to this socket
8	Peri Socket AV1	Connect inputs from external equipment to this socket
9	Peri Socket AV2	Connect inputs from external equipment to this socket
10	Peri Socket AV3	Connect inputs from external equipment to this socket
11	Power ON/OFF	Switches TV ON and OFF alternately (standby)
12	Coloured Selection Buttons	Each of these buttons has a dual purpose. When the function button (F) is pressed, a menu is displayed on-screen showing coloured topics that are available for selection. Pressing the corresponding coloured button on the handset will select that topic. In the normal TV mode of operation, pressing these buttons will select the following:—
	Top Red Button	Displays menu from which the external AV signals or Phono socket signals (AV4) can be selected. These will then replace the TV signal
	Bottom Red Button AV	Displays menu from which external RGB input from AV1, S-VHS inputs from AV2/ AV3 or phono inputs (AV4) can be selected. These signals then replace the TV signal
	Top Green Button	Selects Recall mode. When pressed, the programme number, programme name, etc. will appear on-screen
	Bottom Green Button I-II-▼	**When receiving a dual sound broadcast, selects each language alternately. When receiving stereo broadcast, selects FM mono mode** **When a Nicam dual sound broadcast is received, pressing this button selects the second language, and pressing once more will select FM mono. Press a third time to return 1st language of dual sound broadcast**
	Top Yellow Button ♪ Speech/Music control	**If required you can press this button to alter the audio response. Press once more to return to normal setting.**

KEY	FUNCTION	PURPOSE
	Bottom Yellow Button	Sound effects button. First press produces pseudo stereo and ⊂⊃ will be displayed on-screen. Second press obtains extra wide pseudo stereo and displays ←⊂⊃→ on-screen. Third press gives extra wide true stereo and will display ← → on-screen
	Top Blue Button	Displays the time on-screen
	Bottom Blue Button →●←	Normalize button. Returns customer settings of contrast, colour, brightness etc., to their original stored levels
13	PROG Buttons	Increases or decreases the programme number on display by 1
14	Function button	Displays main menu on-screen from which further menus can then be selected. This procedure will be described in greater detail in the following pages.
15	Store Button	This button stores the settings made by the user on each individual topic selected from the menu
16	Mute Button	Press this to cut the sound off instantly. Press once more to return sound
17	Volume UP/DOWN	Press top part of button to increase the sound level, or bottom part to reduce
18	Teletext Button	Enters teletext mode when pressed
19	Mix Button	Superimposes the teletext information onto the TV picture
20	TV button	Returns to normal TV operation from teletext or mix mode. Will also return to normal TV operation from any of the menu display modes
21	Digits 1 — 9 and 0	To select programme numbers, input channel numbers, and set time into standby in TIMER mode of operation
22	Tens and Units Button	When entering programme numbers using the handset digits, press this button to cause the on-screen display to alternate between — or --. When the single dash is selected programmes 1 — 9 can be entered, and when -- is selected, programme numbers 10 — 59 can be entered
23	Channel Selection button CH	Enables direct selection of channel number for TV programmes or cable systems. Alternatively, the frequency of desired programme can be entered if known. This function is described in more detail later
24	Sliding Cover	Hides the remote control functions which operate most HITACHI VCRs. Pull cover completely off to reveal battery compartment. Replace with correct battery type when necessary (see specifications page 23)

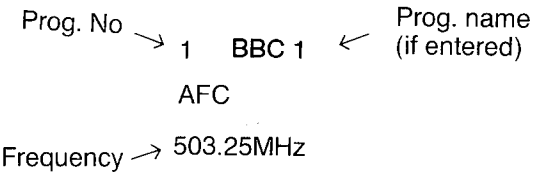
TUNING PROCEDURE

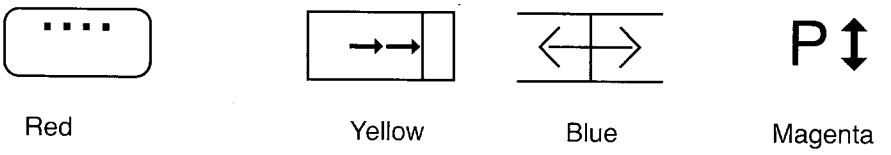
SEARCH TUNING:

1. Press (F) button on handset to obtain the main menu display on bottom of screen.



2. Press Yellow button on handset to enter tuning mode. The display will change as in example below:—





3. Press Magenta handset buttons to change programnme number Up 1 or Down 1. Alternatively, enter programme number using the tens and units handset button (-/--) , and digits 0 - 9. First press of (-/--) button allows you to select programmes 1 - 9, and after second press, programmes 10 - 59 can be entered.

4. Press one of the Yellow buttons on handset and the search routine will begin. If the top Yellow button is pressed the frequency rises, and pressing the bottom button causes the frequency to decrease until a new station is detected.

   NOTE: The 503.25MHz example above is the exact frequency of channel 25, but due to tolerances, the on-screen display may be 0.06MHz above or below this.

5. Should the detected signal be unwanted, press one of the Yellow buttons again to resume searching until the desired station is found.

   If fine tuning is required, press one of the Blue coloured buttons.

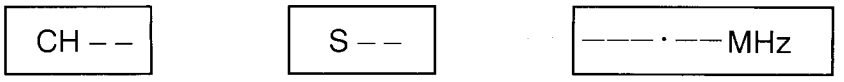
6. When satisfied, press (◇) button of handset to store all the tuning information for that programme number. The display becomes Red for a short period to indicate storing is taking place.

7. Press the Magenta or digit buttons on handset to select new programme number, then repeat steps 4 — 7 until all your desired stations have been captured and stored.

8. Press (F) button on handset until menus disappear from screen.

DIRECT TUNING:
If the channel number or frequency of the TV or cable programme you require is known, then there is no need to press (F) button of handset to select the main menu display. Simply follow the procedure below.

1. Select programme number required using Magenta buttons or digit buttons of handset.
2. Press (CH) button on handset to obtain one of the following on-screen displays:—

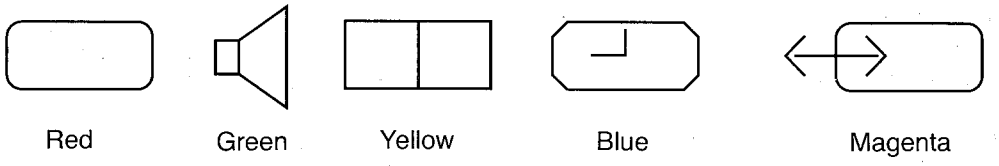


3. For CH- - and S- - displays, enter the channel number using the handset digits 1 - 9, e.g. 05 or 40 etc. (S- - has no function in U.K.)
   For the MHz display, simply enter the frequency of the channel required using the handset digits (see page 22). If this is less than 100MHz enter a 0 (zero) first e.g. 076.25MHz. There is no need to enter the decimal point, as this will appear automatically.
4. When the signal is received, press (◇) button on handset to store.
5. Repeat steps 1 — 4 until all your desired stations have been captured and stored.

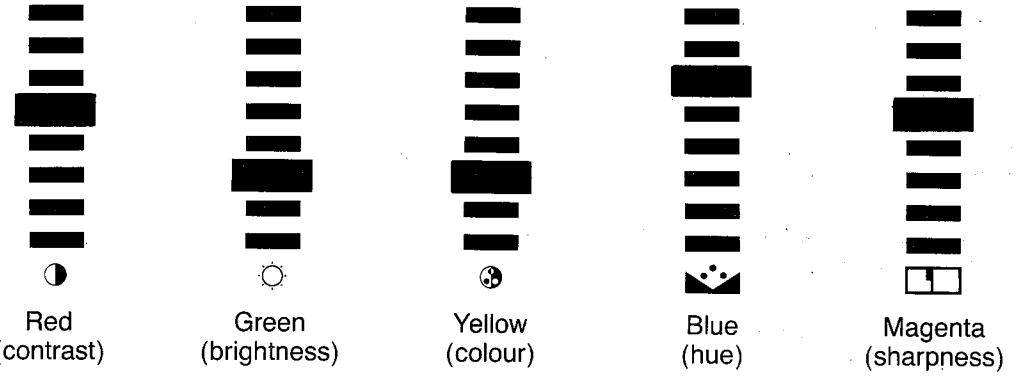
NOTE: When video recorders are connected for playback via the aerial socket, ensure that one of the programme numbers 56 - 59 are selected.

CUSTOMER PICTURE AND SOUND SETTINGS

1. Press (F) button of handset to obtain the main menu display.

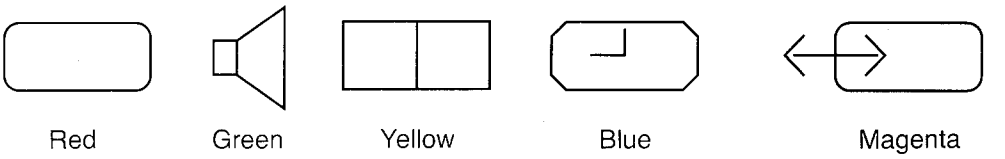


2. Press one of the Red coloured handset buttons to obtain the following on-screen display:—

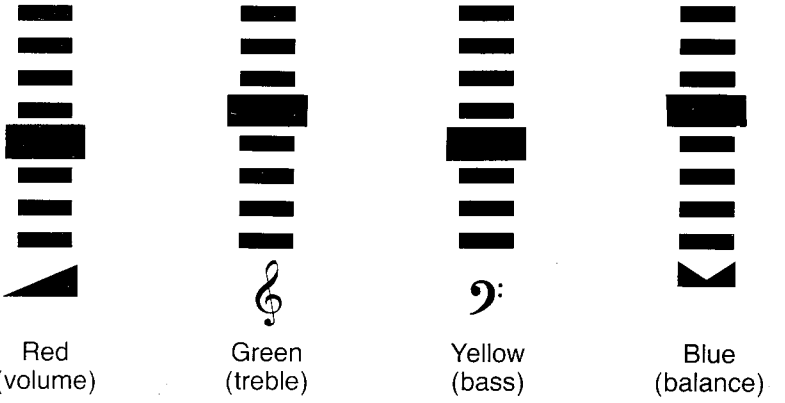


The large blocks in the display represent the present level of each function.

3. Press the corresponding coloured button on handset to increase or decrease each level as desired.
   NOTE: Hue control will only operate whilst receiving an NTSC picture.
4. When satisfied, press ◇ button on handset to store.
5. Press Ⓕ button on handset to return to main menu.



6. Press one of the Green coloured buttons on handset to obtain the following display.

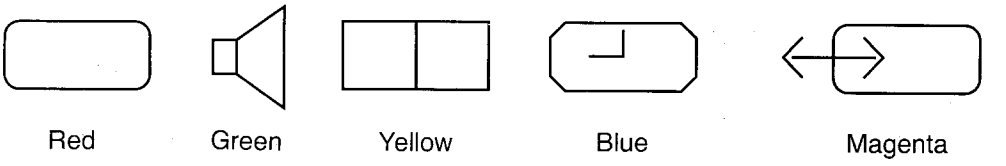


7. To alter the level of each function, press the corresponding coloured button on handset.
8. When satisfied, press ◇ button on handset to store.
9. Press Ⓕ button until menus disappear from screen.

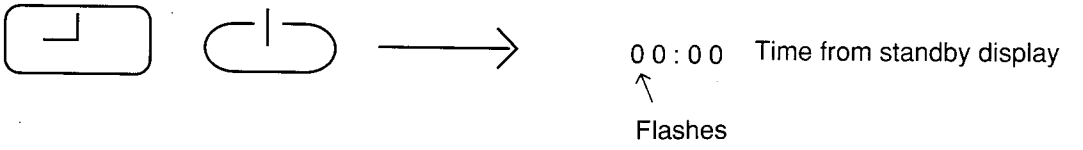
TIMER ON/OFF OPERATION

TIME ON:

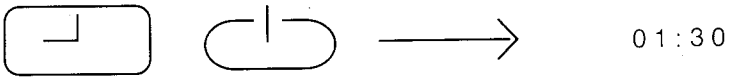
1. Press the Ⓕ button on handset to display the main menu.



2. Press one of the Blue handset buttons to obtain the timer display.



3. Using the handset digits, enter the amount of time you require the TV to remain OFF (standby) before returning to normal operation. This can be from 1 minute to 23 hrs 59 minutes. If entering 1 minute, press 0, 0, 0, then 1. As an example if it is 18:00 hrs, and you wish the TV to come ON again at 19:30 hrs, enter 0, 1, 3, and 0. (18:00 - 19:30 = 1 hr 30 minutes)



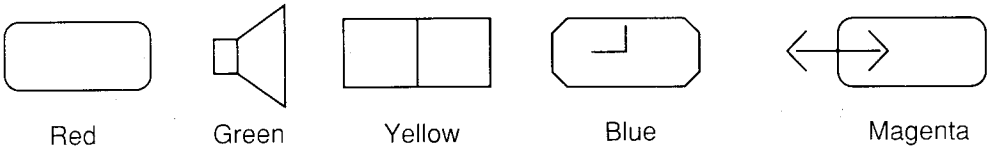
4. Press handset button ◇ to store this information.

5. Place TV into standby mode by pressing the handset button marked ⏻ | .

6. When entered time has elapsed, the TV will return to normal operation.
Note: If no command is received by the TV within 3 minutes of return to normal operation, it will enter the standby mode once more as a safety precaution.

TIME OFF:

1. Press the Ⓕ button on handset to display the main menu.



2. Press one of the Blue handset buttons to obtain the timer display.

3. Press the top Blue button to obtain the time into standby display.

4. Enter amount of time you wish to elapse before TV goes OFF (standby) using handset digits. This can also be from 1 minute to 23 hrs 59 minutes.

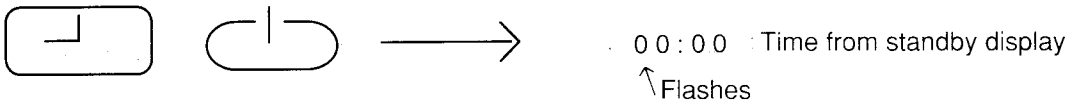
5. Press handset button ◇ to store.

6. Press Ⓕ button of handset until menus disappear from screen.

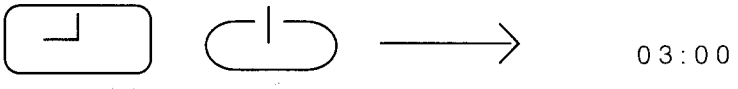
7. When entered time has elapsed, TV will go into standby. To return TV to normal operation, press handset button ⏻| .

TO COMBINE OFF AND ON TIMER OPERATIONS:

1. Press Ⓕ button of handset, then Blue coloured button to select time from standby display.

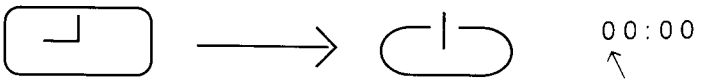


2. Using the present time as a starting point, calculate the amount of time until TV is to come out of standby. As an example, if it is now 17:00 hrs, and you wish the TV to come out of standby at 20:00 hrs, then enter 3 hrs, e.g. 0, 3, 0, and 0 using the handset digits.



3. Press ◇ button of handset to store.

4. Press the top Blue button on handset to obtain the time into standby display.



5. Again, using 17:00 hrs example as the starting point, enter the amount of time you wish TV to remain in operation, before going into standby. If for example you wish the TV to go into standby at 17:30 hrs, enter 0, 0, 3, and 0. (17:00 - 17:30 = 30 minutes)

6. Press ◇ button of handset to store.

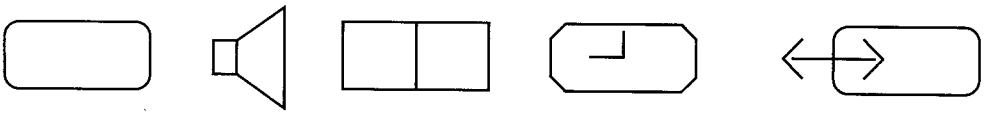
7. Press (F) button of handset until menus disappear from screen.

At 17:30 hrs the TV will place itself into standby, and then become fully operational once more at 20:00 hrs.

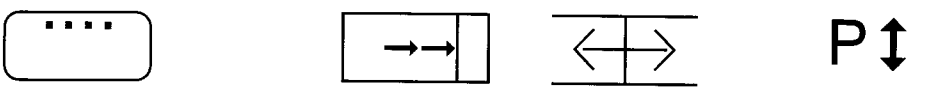
PROGRAMME NAME

A programme name can be allocated to each programme number if desired. This can be up to 5 letters, characters, or numbers in length. Once entered and stored, this programme name appears alongside the programme number on the TV screen. The following procedure explains how to do this.

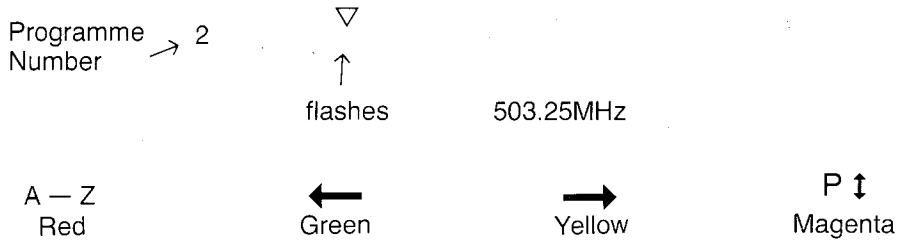
1. Press the (F) button on handset to display the main menu.



2. Press one of the Yellow buttons on handset to obtain the following display.



3. Press one of the Red coloured buttons on handset. The on-screen display will change as follows.



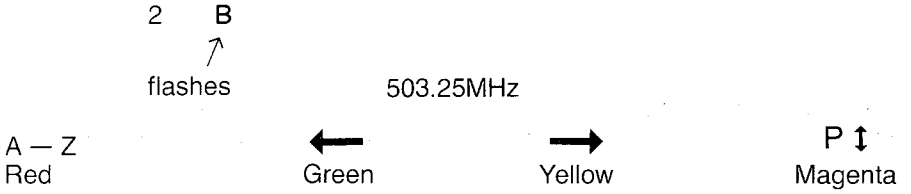
If a programme name has already been entered on the programme number selected, those letters or numbers will be shown in the display.

4. Press and hold down the top Red button on handset. The numbers 0—9 will then appear followed by the letters A—Z, a dash —, then an upside down triangle ▽ . The triangle allows the insertion of a blank space, which will not be shown in the final display.

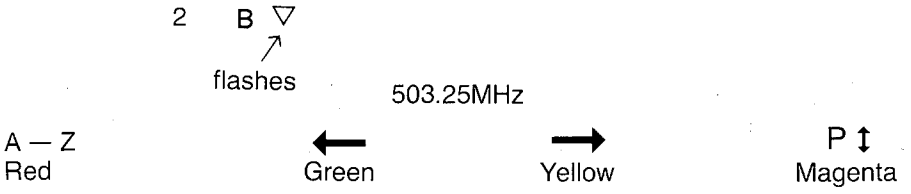
   Pressing the bottom Red buttons on handset will cause the alphabet and numbers etc. to reverse their direction, i.e. to go from Z—A then 9—0.

   As an example of this procedure, how to input BBC 1 is explained.

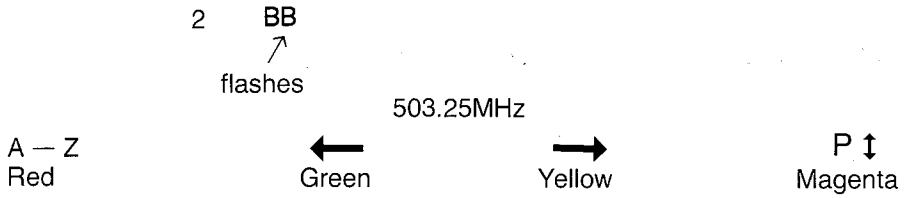
5. Press top Red button of handset unil the letter B replaces the triangle in display.



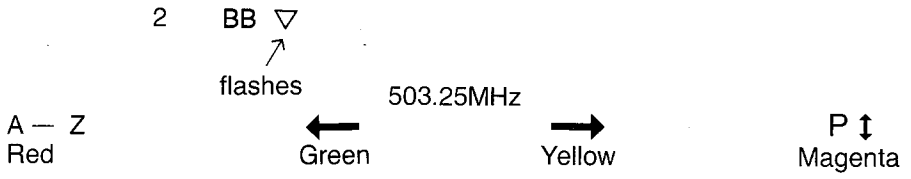
6. Press one of the Yellow buttons on handset, and triangle re-appears to the right of the letter.



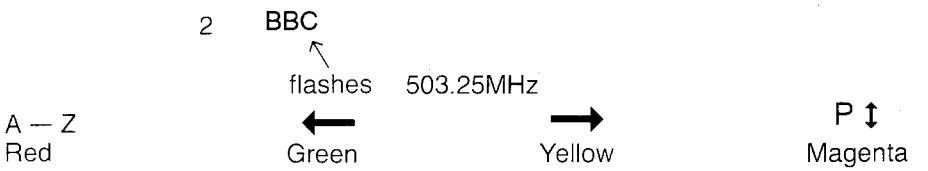
7. Press top Red button to obtain the letter B once again.



8. Press one of the Yellow buttons and triangle re-appears.

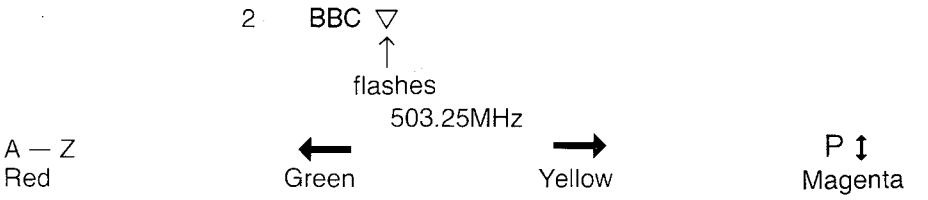


9. Press top Red button until letter C is displayed.

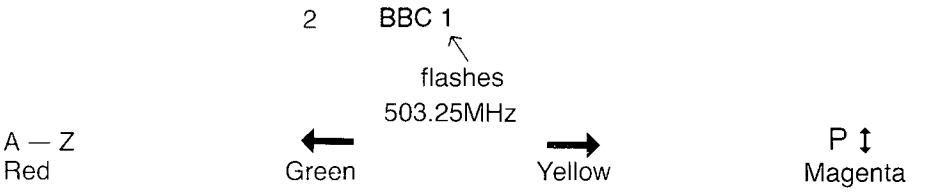


10. Press one of the Yellow buttons and triangle re-appears in display.

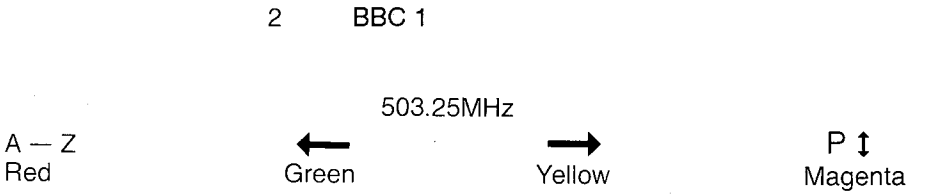
11. Press one of the Yellow buttons again. Triangle moves to the right, leaving a blank space in the display.



12. Press top Red button until the number 1 appears in display.



13. The programme name is then ended. Press ◇ button on handset to store. Display turns Red for a short period of time to indicate this. then appears on screen as follows.



Press one of the Magenta buttons on handset to cause the programme number to increase or decrease by 1, until the next programme number you require to name is obtained.

14. Repeat steps 5 — 13.

15. Press Ⓕ button on handset until menus disappear from the screen.

TELETEXT OPERATION

To enter TELETEXT mode press handset button ▤ , and the bottom of the screen will display the FAVOURITE PAGE menu.

100	199	120	---	137
HOLD	EXPAND	REVEAL	UPDATE	MENU

Should there be no favourite page numbers entered on that programme number, the index page of that teletext magazine will be displayed, and the FASTEXT mode automatically chosen when teletext initially selected.

The numbers in the top line represent favourite page numbers. These are pre-selected by the user. They will be replaced by three dashes if no favourite page numbers have been entered previously.

The first favourite page number will always be searched for and displayed when teletext mode is selected, and that number will be coloured white in this display.

Press one of the coloured buttons on top row of handset (e.g. green) to choose the corresponding page number you wish to view or change. That number will then become white.

To enter a favourite page number, press the identical handset digits. In previous example, for the second favourite page press digits 1, 9, and 9 for page 199.

Repeat this procedure until all your favourite page numbers are entered, then press the bottom Magenta button to display the PAGE MENU mode.

N.B. Favourite pages can only be stored on programmes 1 - 9.

FAV P	SUB P	PAGE +1	PAGE -1	LAST P
HOLD	EXPAND	REVEAL	UPDATE	MENU

Pressing the top Red button on handset in this mode returns the favourite page display should you desire to view or change those pages. Press bottom Magenta button once more to return the PAGE MENU.

To select the sub-page routine press top Green button on handset. The display will then change as follows.

199/4	---/--	---/--	---/--	---/--
HOLD	EXPAND	REVEAL	UPDATE	MENU

The page number in the display will be the present teletext page on screen, and the 4 represents the fourth sub-page relating to that page number.

Enter the page number you require using the handset digits if it is different from the one already on display.

If no sub-pages exist for that page, then the number 0 will follow the page number in the display. The first sub-page captured will always be the one presently on screen.

After a short period of time, the coloured dashes will be replaced by the remaining sub-pages as each one is captured.

199/4	199/5	199/6	199/7	199/8
HOLD	EXPAND	REVEAL	UPDATE	MENU

This routine works on a carousel principle. Therefore, if in the example above page 199 has 8 sub-pages, after a short period of time, sub-pages 4, 5 and 6 will be replaced by sub-pages 1, 2, and 3.

Should you desire, you can halt the carousel process by pressing the bottom Red coloured button on handset (HOLD). Press this button again to resume the capture of sub-pages.

To select the sub-page you require to view, press the corresponding coloured button in the top row of handset.

Once you have read all sub-pages for the displayed page, enter the next teletext page number on which you desire to view sub-pages. Repeat this procedure for as long as desired.

Press bottom Magenta button to return to PAGE MENU when sub-page routine is no longer required.

FAV P	SUB P	PAGE +1	PAGE -1	LAST P
HOLD	EXPAND	REVEAL	UPDATE	MENU

Pressing the top Yellow or Blue coloured button on handset will cause the page number on view to increase by 1, or decrease by 1 accordingly.

To recall the teletext page viewed prior to the present page on display press the top Magenta coloured button.

Pressing the bottom Magenta button will display the FASTEXT menu.

HEADLINES	NEWSWATCH	SPORT	CITY	
HOLD	EXPAND	REVEAL	UPDATE	MENU

When in the FASTEXT mode or PAGE MENU mode, other teletext pages can be selected for display using the handset digits 0 - 9, and your favourite pages will return unchanged.

The FASTEXT display consists of 4 coloured topics which appear at the bottom of the screen.

The 4 topics displayed are transmitted by the broadcasting authorities, and can be chosen for viewing by pressing the corresponding coloured button on the top row of the handset. When a topic has been chosen and displayed, 4 new topics will appear. Press the appropriate coloured button to select the next desired topic from the new display. Repeat this procedure for as long as required.

Should the top Magenta button on handset be pressed, the index page of the teletext magazine being received will be displayed.

Pressing the bottom Magenta button will alternate between the FASTEXT display and the PAGE MENU display.

This system has certain fixed features which remain the same whichever display mode of teletext is selected. These appear at the bottom of the on-screen display.

HOLD EXPAND REVEAL UPDATE MENU

Pressing the bottom Red coloured button on handset will select the HOLD condition. This keeps the present page on display should it contain sub-pages. To indicate this, the word HOLD replaces the page number in the header display at the top of the screen. Press bottom Red button to release this condition.

Should you desire to increase the size of the page on display press the bottom Green coloured button on handset. The first press doubles the size of the top half of the page, and the second press doubles the size of the bottom half of the page. Pressing bottom Green button a third time returns the display to normal height.

On certain teletext pages, i.e. quiz pages for example, some information is hidden. To reveal this, press the bottom Yellow button.

Pressing the bottom Blue button selects the UPDATE operation for the page on display. The TV picture is then returned to the screen, but the TV still remains in teletext mode. When the teletext page receives updated information, i.e. a sub-page change, the page number appears at the top of the screen, and the menu display at the bottom. Once this happens, press the bottom Blue button again to view updated teletext page.

Should you wish to view the TV picture whilst in TELETEXT mode, press the handset button marked . This will superimpose the teletext information onto the TV picture, but all teletext commands will still be operational. Press the button to return to normal teletext display.

Notes: When in PAGE MENU mode or FAVOURITE PAGE display, pressing the handset button marked will return you to the FASTEXT display.

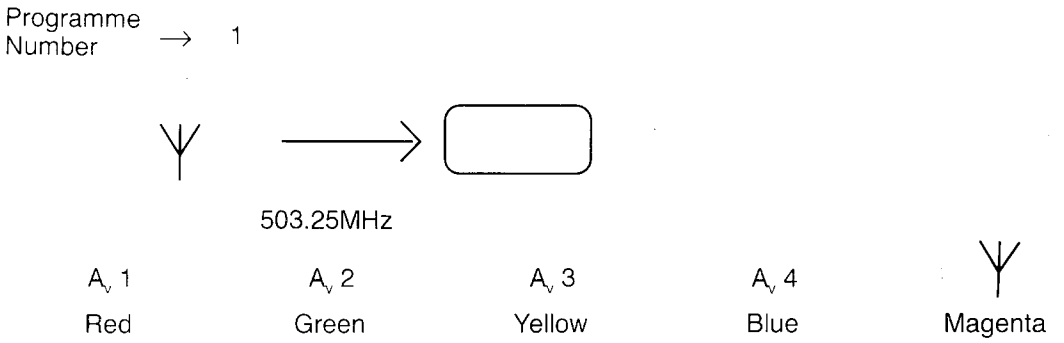
To return the TV to normal operation, press the handset button .

21 PIN PERI INPUT/OUTPUT SET-UP PROCEDURE

If your external equipment has a 21 pin connector identical to the type used on the TV, then to replace the TV signal with the external signal, simply connect to the TV 21 pin peri socket via a suitable lead, and switch on the equipment. The on-screen display will indicate which socket is in use by displaying A_v1, A_v2 or A_v3.

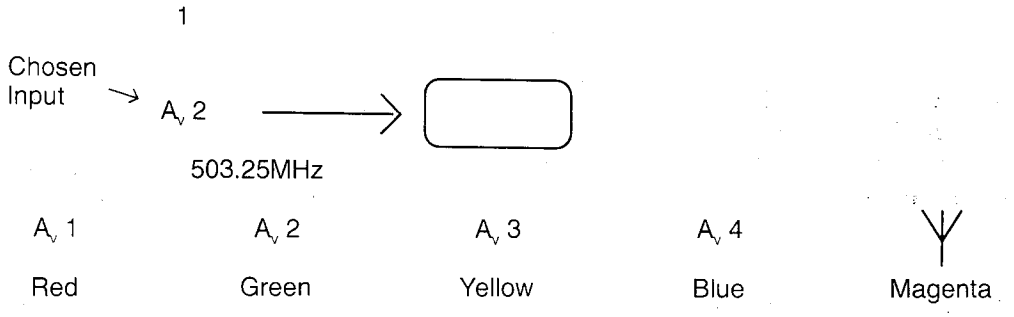
If the connectors of the external equipment do not compare, follow this procedure after connecting via suitable lead:-

1. Press top Red coloured button on handset to obtain the AV level 1 on-screen display for VCR playback or phono socket input.



The symbol under the programme number in the above example represents the aerial. This shows that at the present time, the signal being input to the TV is from the aerial. If no input is received after a period of time, the display disappears, and will have to be reselected again.

2. To choose an input from one of the 21 pin Peri sockets for viewing, press the Red, Green, or Yellow coloured buttons on handset. The display will change as follows, and the TV picture is replaced by the selected input (in this example A_v 2).



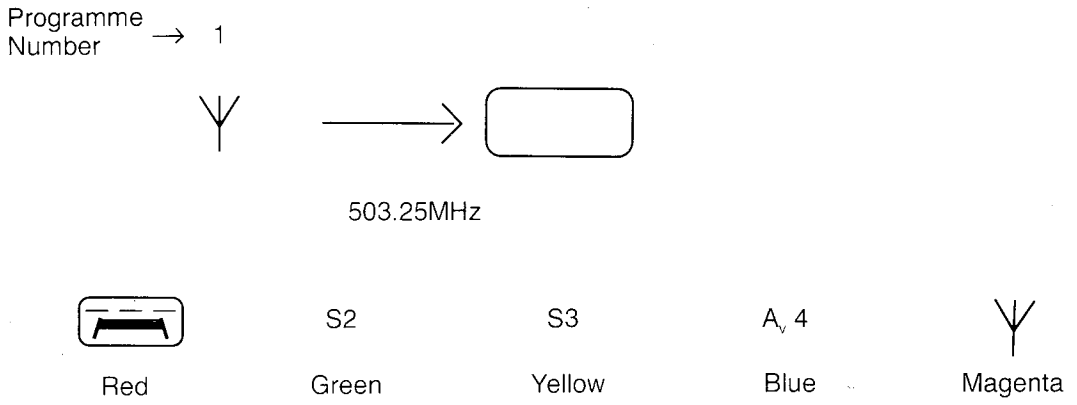
3. To select signals input via the phono sockets situated on the front of TV, press the Blue coloured button on handset. PA_v 4 will then take the place of A_v 2 in the above example.

4. Press ◇ button of handset to store. Display turns Red for a short period to indicate store routine is taking place, then after a further period of time it disappears from the screen.

5. Select next programme number on which you require to receive an external signal, using the Magenta coloured buttons or digits of handset.

6. Repeat steps 1 — 5 until all external sockets required for use have been allocated a programme number.

7. If the input you require is from an S-VHS video recorder or an RGB source, select the desired programme number, then press the bottom Red button on handset to obtain the following AV level 1 display:—



8. Press the corresponding coloured button on handset to obtain the required input source. The ▭ represents RGB equipment, whilst S2 and S3 should be chosen for S-VHS inputs. A_v 4 represents inputs from phono sockets, as in the previous AV level 1 explanation.

   The input source selected will be displayed in place of the aerial symbol.

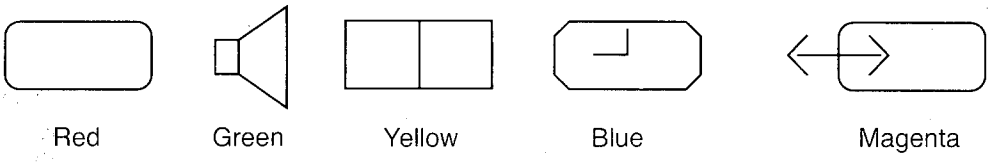
9. Press ◇ button on handset to store.

10. Once display has disappeared, repeat steps 7 — 9 until all required inputs have been allocated a programme number.

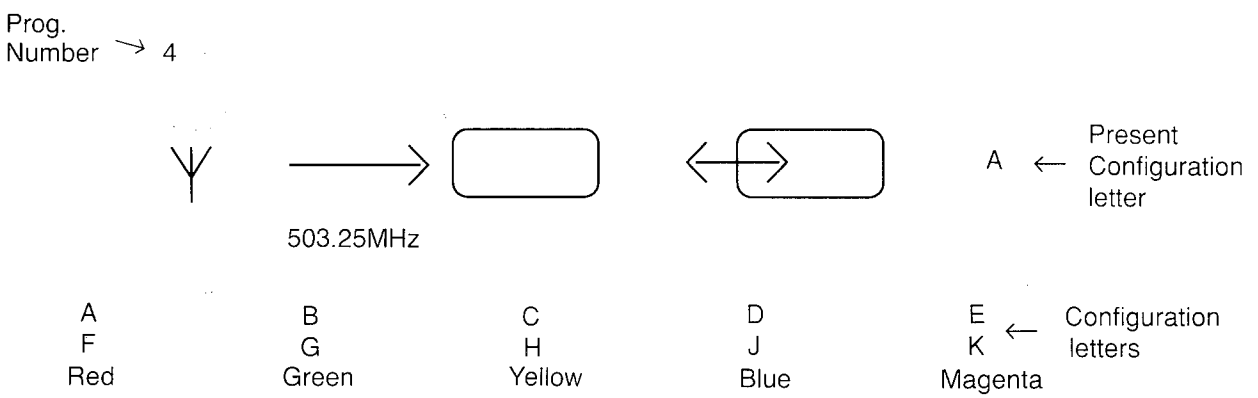
CONFIGURING INPUT/OUTPUT CONNECTIONS

This procedure allows the user to programme the TV, so that the input from a particular 21 pin Peri socket, can be output to any or all of the remaining sockets. To do this, read carefully the following instructions.

1. Press the Ⓕ button on handset to select the main menu display.



2. Press Magenta button to display AV level 2 on screen.

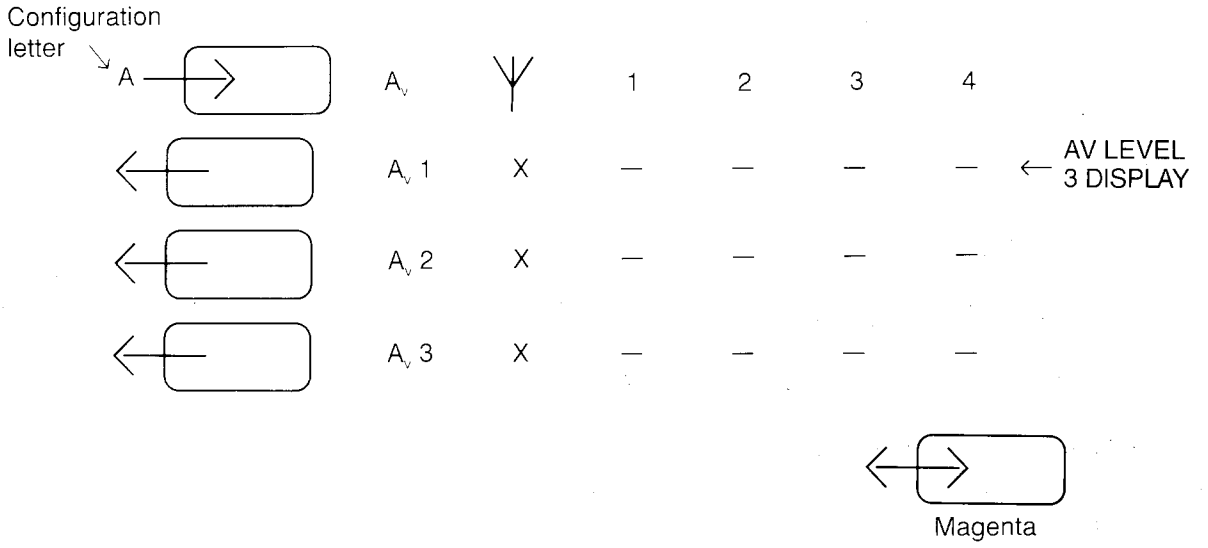


If the programme number has a programme name allocated, that will also be shown alongside the programme number in the display.

The configuration letters A - E can be selected by pressing the corresponding coloured button on top row of handset, and the letters F - K by pressing the appropriate coloured button on bottom row.

The configuration of letters A - E are pre-programmed, and cannot be altered. When one of these are chosen, a matrix display showing the preset configuration will appear on screen. This display is known as AV level 3.

3. To select configuration A, press Red button on top row of handset.

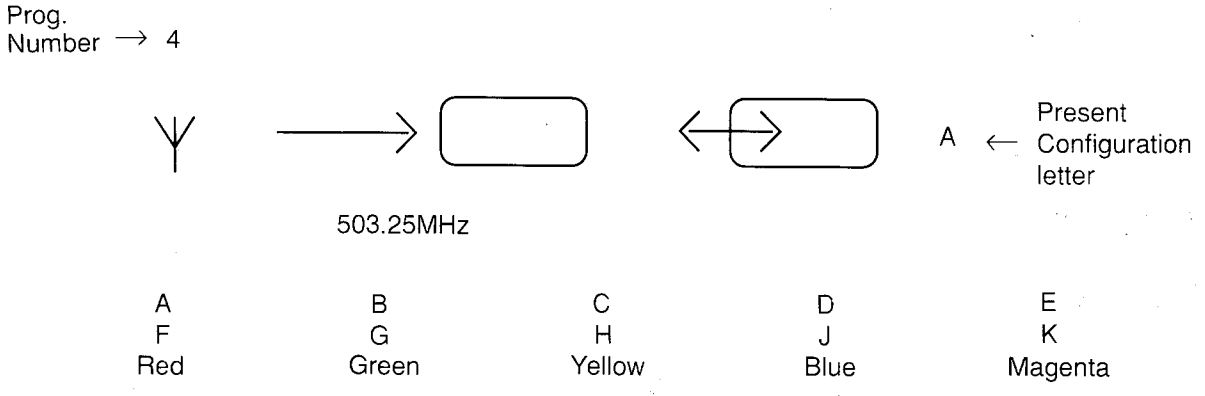


The top line in display represents the 5 input sources, whilst the next three lines represent the output. The X shows how they are inter-connected.

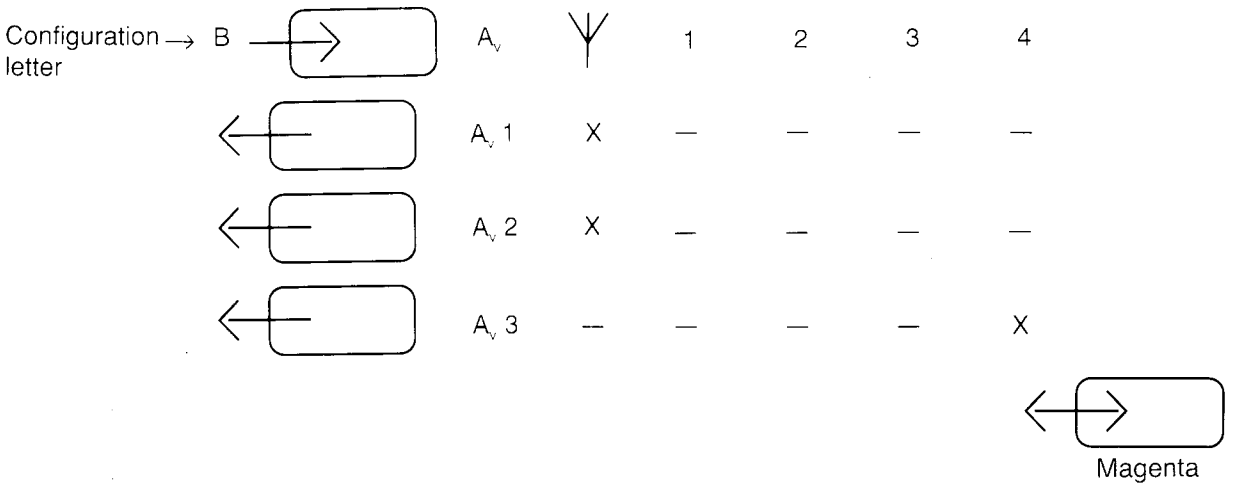
In configuration A above, the input signal from the aerial is output to all three 21 pin Peri sockets.

4. If this is the desired configuration you require, then press ◇ button on handset to store.

5. If you wish to select configuration B, then you must first return to AV level 2 by pressing Magenta button.



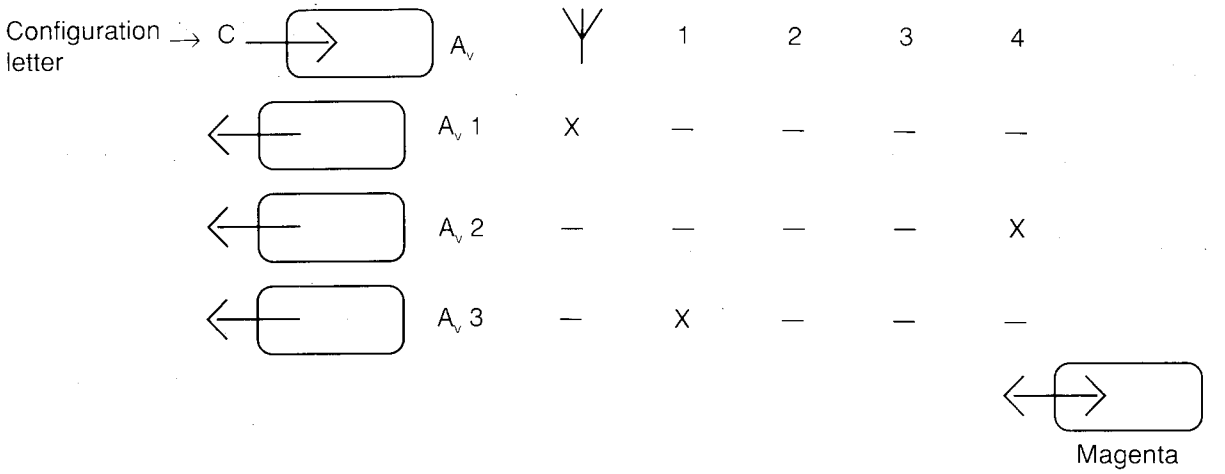
6. Next, press top Green coloured button on handset to select configuration B.



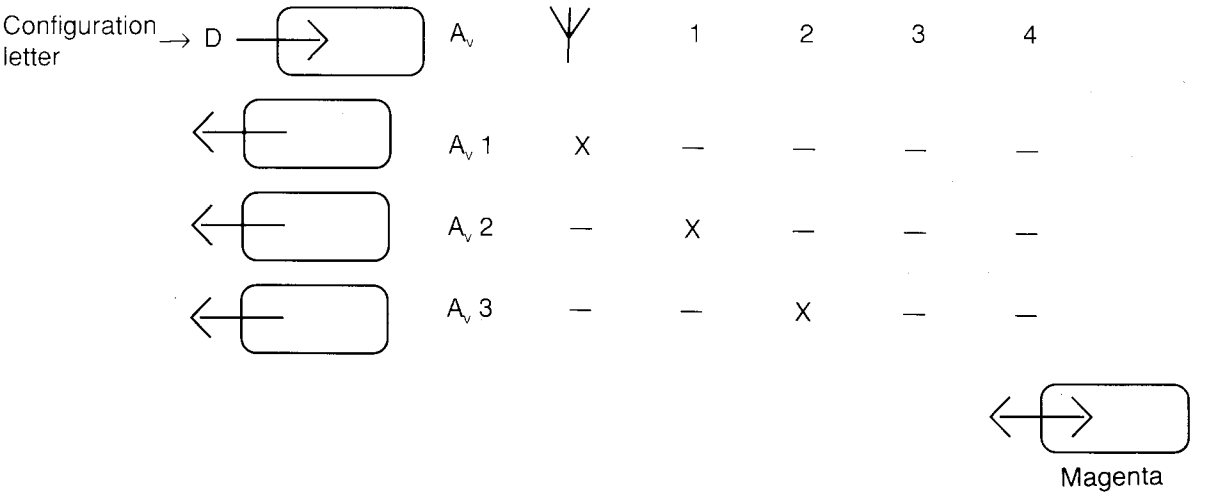
In this mode, the input signal from the aerial is output to A_v1 and A_v2, whilst the input from A_v4 is output to A_v3.

7. Press ◇ button on handset to store configuration B.

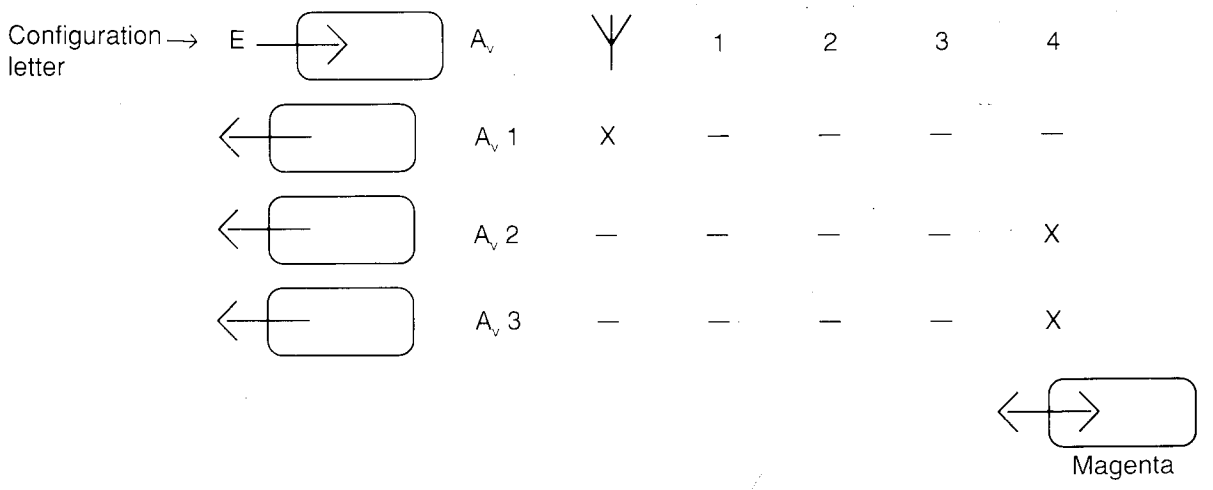
The preset input/output configuration for letters C - E are as follows:-



In this configuration, the input from the aerial is output to A_v1, the input from A_v1 is output to A_v3, and the input from A_v4 is output to A_v2.



This configuration outputs the aerial signal to A_v1, the input from A_v1 is output to A_v2 and the input from A_v2 is output to A_v3.



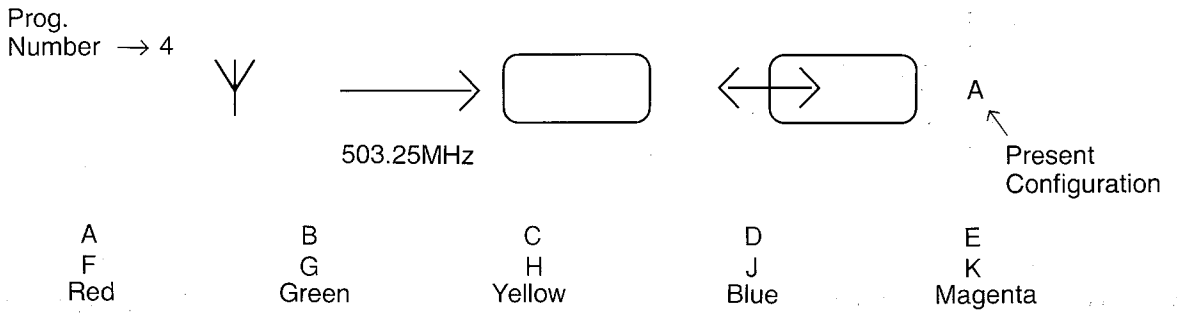
In this configuration the input from the aerial is output to A_v1, and the input from A_v4 is output to A_v2 and A_v3.

When desired configuration has been selected and stored, press (F) button on handset once to return to main menu, then once more to return to normal TV mode of operation.

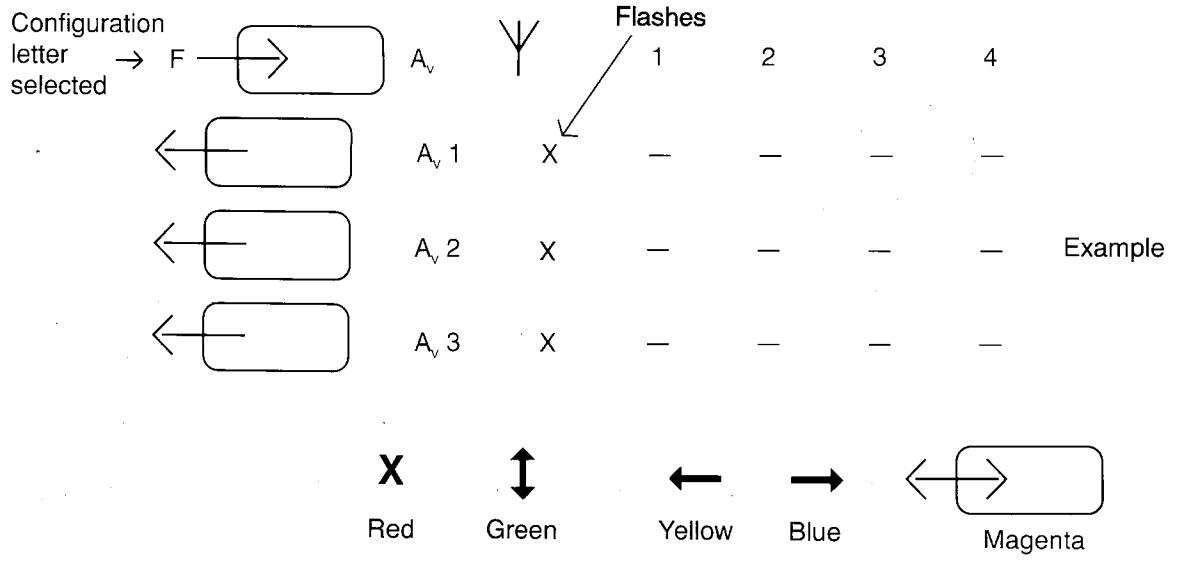
N.B. Once a configuration letter has been selected and stored, it applies to all programme numbers from 1 — 59.

Should you desire, you can programme your own input and output paths if the configuration letters A - E are not suitable.

1. Press (F) button on handset to obtain the main menu display, then press Magenta button to enter AV level 2.



2. Press one of the bottom row of coloured handset buttons to obtain the AV level 3 display for configuration letters F - K.



In the example shown. the input from the aerial has been selected for output to A_v1. A_v2 and A_v3.

Whatever the previous configuration, the top left X or dash will always flash when the display is first selected.

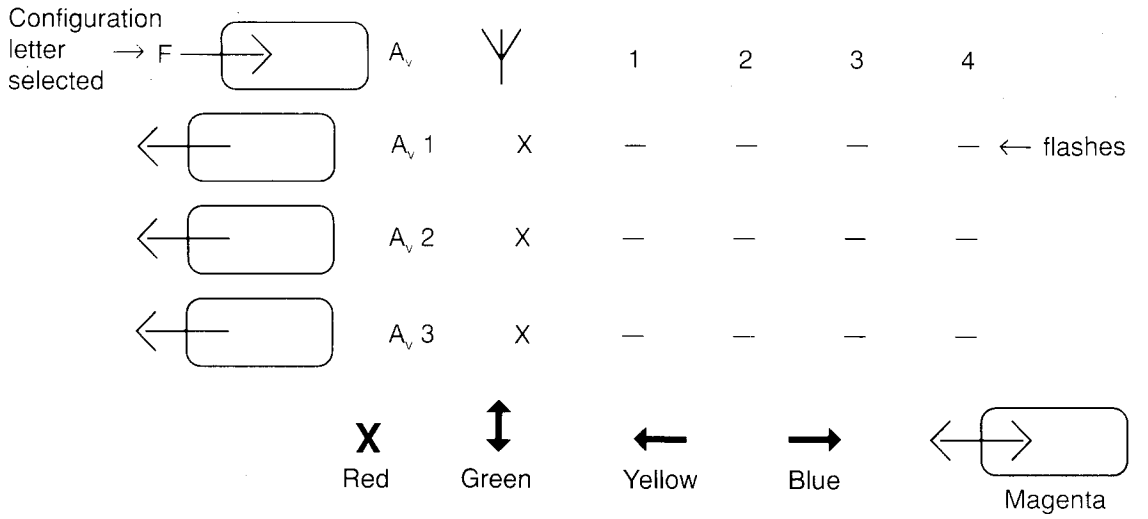
3. Press the Green, Yellow, and Blue coloured buttons of handset to move up or down, and left or right, until the position in which you require to insert an X flashes.
4. Press Red coloured button on handset and an X will appear at that point in the display.

   Should an X already exist on that line, the new input will replace it.
5. Once the three inputs have been allocated outputs by inserting an X in each required output line, press the ◇ button on handset to store.
6. Press the Magenta button to return the AV level 2 display.

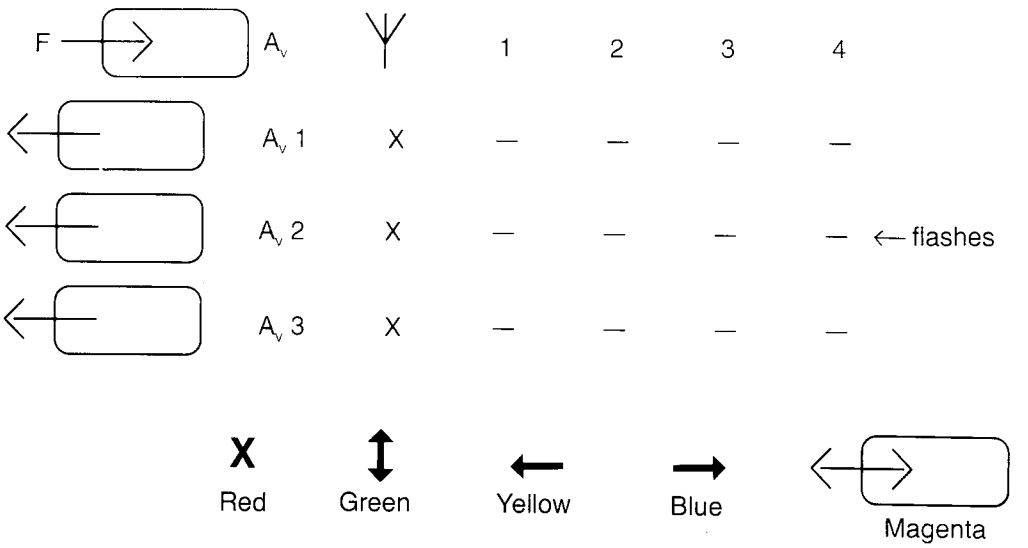
   As explained previously, the stored configuration will apply to all programme numbers.
7. Press Ⓕ button of handset to recall main menu display, then press Ⓕ button once more to return to normal TV operation.

As an example, to select A_v4 to be output to A_v2 when AV Level 3 is displayed on screen, follow this procedure:-

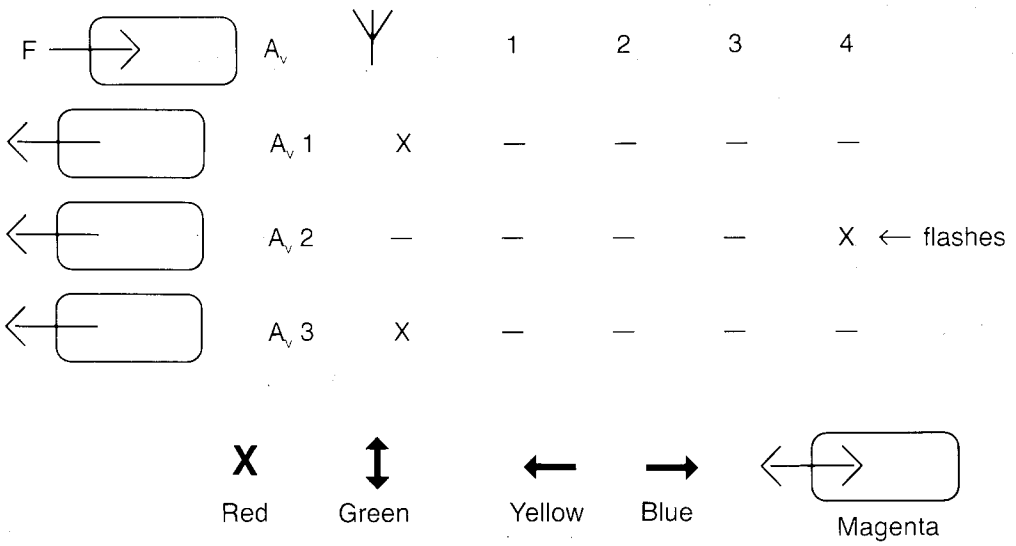
1. Press Blue coloured button on handset until last dash of A_v 1 line flashes.



2. Press bottom Green button on handset so that last dash of A_v 2 line flashes.



3. Press Red coloured button of handset to insert an X at this point.



This X replaces the X that was originally in that line, and now indicates that the A_v 4 input signal will be output to A_v 2.

4. Press ◇ button of handset to store.

5. Press Ⓕ button on handset until menus disappear from the screen.

T.V. CHANNEL FREQUENCIES

	Standard BG		Standard I		Standard L		Standard DK	
On Screen Display	Channel	Vision Frequency	Channel	Vision Frequency	Channel	Vision Frequency	Channel	Vision Frequency
CH01	SP0	46.25	IA	45.75	1	47.75	1	49.75
CH02	E2	48.25	IB	53.75	2	55.75	2	59.25
CH03	E3	55.25	IC	61.75	3	60.50	3	77.25
CH04	E4	62.25	ID	175.25	4	63.75	4	85.25
CH05	E5	175.25	IE	183.25	5	176.00	5	93.25
CH06	E6	182.25	IF	191.25	6	184.00	6	175.25
CH07	E7	189.25	IG	199.25	7	192.00	7	183.25
CH08	E8	196.25	IH	207.25	8	200.00	8	191.25
CH09	E9	203.25	II	215.25	9	208.00	9	199.25
CH10	E10	210.25	IJ	223.25	10	216.00	10	207.25
CH11	E11	217.25	N/A	N/A	N/A	N/A	11	215.25
CH12	E12	224.25	N/A	N/A	N/A	N/A	12	223.25
CH13	U1	226.25	N/A	N/A	N/A	N/A	N/A	N/A
CH14	U2	234.25	N/A	N/A	N/A	N/A	N/A	N/A
CH15	U3	242.25	N/A	N/A	N/A	N/A	N/A	N/A
CH16	U4	250.25	N/A	N/A	N/A	N/A	N/A	N/A
CH17	U5	258.25	N/A	N/A	N/A	N/A	N/A	N/A
CH18	SP1	69.25	N/A	N/A	N/A	N/A	N/A	N/A
CH19	SP2	76.25	N/A	N/A	N/A	N/A	N/A	N/A
CH20	SP3	82.25	N/A	N/A	N/A	N/A	N/A	N/A
CH21	E21	471.25	E21	471.25	E21	471.25	E21	471.25
CH22	E22	479.25	E22	479.25	E22	479.25	E22	479.25
CH23	E23	487.25	E23	487.25	E23	487.25	E23	487.25
CH24	E24	495.25	E24	495.25	E24	495.25	E24	495.25
CH25	E25	503.25	E25	503.25	E25	503.25	E25	503.25
CH26	E26	511.25	E26	511.25	E26	511.25	E26	511.25
CH27	E27	519.25	E27	519.25	E27	519.25	E27	519.25
CH28	E28	527.25	E28	527.25	E28	527.25	E28	527.25
CH29	E29	535.25	E29	535.25	E29	535.25	E29	535.25
CH30	E30	543.25	E30	543.25	E30	543.25	E30	543.25
CH31	E31	551.25	E31	551.25	E31	551.25	E31	551.25
CH32	E32	559.25	E32	559.25	E32	559.25	E32	559.25
CH33	E33	567.25	E33	567.25	E33	567.25	E33	567.25
CH34	E34	575.25	E34	575.25	E34	575.25	E34	575.25
CH35	E35	583.25	E35	583.25	E35	583.25	E35	583.25
CH36	E36	591.25	E36	591.25	E36	591.25	E36	591.25
CH37	E37	599.25	E37	599.25	E37	599.25	E37	599.25
CH38	E38	607.25	E38	607.25	E38	607.25	E38	607.25
CH39	E39	615.25	E39	615.25	E39	615.25	E39	615.25
CH40	E40	623.25	E40	623.25	E40	623.25	E40	623.25
CH41	E41	631.25	E41	631.25	E41	631.25	E41	631.25
CH42	E42	639.25	E42	639.25	E42	639.25	E42	639.25
CH43	E43	647.25	E43	647.25	E43	647.25	E43	647.25
CH44	E44	655.25	E44	655.25	E44	655.25	E44	655.25
CH45	E45	663.25	E45	663.25	E45	663.25	E45	663.25
CH46	E46	671.25	E46	671.25	E46	671.25	E46	671.25
CH47	E47	679.25	E47	679.25	E47	679.25	E47	679.25
CH48	E48	687.25	E48	687.25	E48	687.25	E48	687.25
CH49	E49	695.25	E49	695.25	E49	695.25	E49	695.25
CH50	E50	703.25	E50	703.25	E50	703.25	E50	703.25
CH51	E51	711.25	E51	711.25	E51	711.25	E51	711.25
CH52	E52	719.25	E52	719.25	E52	719.25	E52	719.25
CH53	E53	727.25	E53	727.25	E53	727.25	E53	727.25
CH54	E54	735.25	E54	735.25	E54	735.25	E54	735.25
CH55	E55	743.25	E55	743.25	E55	743.25	E55	743.25
CH56	E56	751.25	E56	751.25	E56	751.25	E56	751.25
CH57	E57	759.25	E57	759.25	E57	759.25	E57	759.25
CH58	E58	767.25	E58	767.25	E58	767.25	E58	767.25
CH59	E59	775.25	E59	775.25	E59	775.25	E59	775.25
CH60	E60	783.25	E60	783.25	E60	783.25	E60	783.25
CH61	E61	791.25	E61	791.25	E61	791.25	E61	791.25
CH62	E62	799.25	E62	799.25	E62	799.25	E62	799.25
CH63	E63	807.25	E63	807.25	E63	807.25	E63	807.25
CH64	E64	815.25	E64	815.25	E64	815.25	E64	815.25
CH65	E65	823.25	E65	823.25	E65	823.25	E65	823.25
CH66	E66	831.25	E66	831.25	E66	831.25	E66	831.25
CH67	E67	839.25	E67	839.25	E67	839.25	E67	839.25
CH68	E68	847.25	E68	847.25	E68	847.25	E68	847.25
CH69	E69	855.25	E69	855.25	E69	855.25	E69	855.25
CH70	E70	863.25	N/A	N/A	B	116.75	N/A	N/A
CH71	E71	871.25	N/A	N/A	C	128.75	N/A	N/A
CH72	E72	879.25	N/A	N/A	D	140.75	N/A	N/A
CH73	E73	887.25	N/A	N/A	E	152.75	N/A	N/A
CH74	N/A	N/A	N/A	N/A	F	164.75	N/A	N/A
CH75	N/A	N/A	N/A	N/A	G	176.75	N/A	N/A
CH76	N/A	N/A	N/A	N/A	H	188.75	N/A	N/A
CH77	N/A	N/A	N/A	N/A	I	200.75	N/A	N/A
CH78	N/A	N/A	N/A	N/A	J	212.75	N/A	N/A
CH79	N/A	N/A	N/A	N/A	K	224.75	N/A	N/A
CH80	N/A	N/A	N/A	N/A	L	236.75	N/A	N/A
CH81	N/A	N/A	N/A	N/A	M	248.75	N/A	N/A
CH82	N/A	N/A	N/A	N/A	N	260.75	N/A	N/A
CH83	N/A	N/A	N/A	N/A	O	272.75	N/A	N/A
CH84	N/A	N/A	N/A	N/A	P	284.75	N/A	N/A
CH85	N/A	N/A	N/A	N/A	Q	296.75	N/A	N/A
CH86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

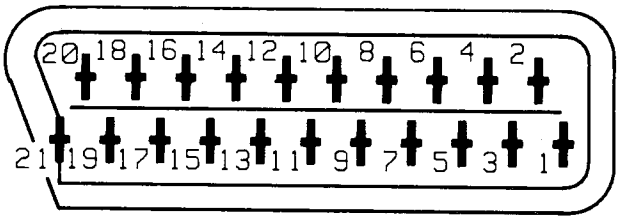
CABLE CHANNEL FREQUENCIES

	Standard BG		Standard I		Standard L		Standard DK	
On Screen Display	Channel	Vision Frequency	Channel	Vision Frequency	Channel	Vision Frequency	Channel	Vision Frequency
S01	S01	105.25	S01	105.25	S01	105.25	S01	105.25
S02	S02	112.25	S02	112.25	S02	112.25	S02	112.25
S03	S03	119.25	S03	119.25	S03	119.25	S03	119.25
S04	S04	126.25	S04	126.25	S04	126.25	S04	126.25
S05	S05	133.25	S05	133.25	S05	133.25	S05	133.25
S06	S06	140.25	S06	140.25	S06	140.25	S06	140.25
S07	S07	147.25	S07	147.25	S07	147.25	S07	147.25
S08	S08	154.25	S08	154.25	S08	154.25	S08	154.25
S09	S09	161.25	S09	161.25	S09	161.25	S09	161.25
S10	S10	168.25	S10	168.25	S10	168.25	S10	168.25
S11	S11	231.25	S11	231.25	S11	231.25	S11	231.25
S12	S12	238.25	S12	238.25	S12	238.25	S12	238.25
S13	S13	245.25	S13	245.25	S13	245.25	S13	245.25
S14	S14	252.25	S14	252.25	S14	252.25	S14	252.25
S15	S15	259.25	S15	259.25	S15	259.25	S15	259.25
S16	S16	266.25	S16	266.25	S16	266.25	S16	266.25
S17	S17	273.25	S17	273.25	S17	273.25	S17	273.25
S18	S18	280.25	S18	280.25	S18	280.25	S18	280.25
S19	S19	287.25	S19	287.25	S19	287.25	S19	287.25
S20	S20	294.25	S20	294.25	S20	294.25	S20	294.25
S21	S21	303.25	S21	303.25	S21	303.25	S21	303.25
S22	S22	311.25	S22	311.25	S22	311.25	S22	311.25
S23	S23	319.25	S23	319.25	S23	319.25	S23	319.25
S24	S24	327.25	S24	327.25	S24	327.25	S24	327.25
S25	S25	335.25	S25	335.25	S25	335.25	S25	335.25
S26	S26	343.25	S26	343.25	S26	343.25	S26	343.25
S27	S27	351.25	S27	351.25	S27	351.25	S27	351.25
S28	S28	359.25	S28	359.25	S28	359.25	S28	359.25
S29	S29	367.25	S29	367.25	S29	367.25	S29	367.25
S30	S30	375.25	S30	375.25	S30	375.25	S30	375.25
S31	S31	383.25	S31	383.25	S31	383.25	S31	383.25
S32	S32	391.25	S32	391.25	S32	391.25	S32	391.25
S33	S33	399.25	S33	399.25	S33	399.25	S33	399.25
S34	S34	407.25	S34	407.25	S34	407.25	S34	407.25
S35	S35	415.25	S35	415.25	S35	415.25	S35	415.25
S36	S36	423.25	S36	423.25	S36	423.25	S36	423.25
S37	S37	431.25	S37	431.25	S37	431.25	S37	431.25
S38	S38	439.25	S38	439.25	S38	439.25	S38	439.25
S39	S39	447.25	S39	447.25	S39	447.25	S39	447.25
S40	S40	455.25	S40	455.25	S40	455.25	S40	455.25
S41	S41	463.25	S41	463.25	S41	463.25	S41	463.25

SPECIFICATIONS

TV standard	625 line single standard.
Channel coverage	UHF Channels 21 — 68
Programme selectors	Programme UP/DOWN buttons with 59 programme remote control
Aerial impedance	75 Ohm unbalanced type
Picture tubes	59 cm type and 66 cm type
Speakers	13cm woofer, 7 x 13cm full range
Battery Type	1.5v (AAA)
Power Consumption	95 W approx.
Mains voltage	240V AC 50Hz
Weight C25 models	Approx. 32 Kgs
C28 models	Approx. 37 Kgs
Dimensions C25 models (W x H x D)	701 x 520 x 464 mm
C28 models	772 x 576 x 500 mm

PERI-SOCKET



PIN No.	FUNCTION
1	AUDIO OUT (RIGHT)
2	AUDIO INPUT (RIGHT)
3	AUDIO OUT (LEFT)
4	GROUND (AUDIO)
5	GROUND
6	AUDIO INPUT (LEFT)
7	BLUE VIDEO INPUT (AV1)
8	SWITCHING INPUT
9	GROUND
10	NOT USED
11	GREEN VIDEO INPUT (AV1)
12	NOT USED
13	GROUND
14	NOT USED AV1/AV2 (Ground AV1)
15	RED VIDEO INPUT AV1 CHROMINANCE INPUT AV2/AV3
16	STATUS (BLANKING) INPUT
17	GROUND
18	GROUND
19	COMPOSITE VIDEO OUTPUT
20	COMPOSITE VIDEO INPUT AV1 COMPOSITE LUMINANCE/COMPOSITE VIDEO INPUT AV2/AV3
21	GROUND

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